

APPENDIX A:
“Clean” Version of Substitute Specification
ANIMAL WITH SURGICALLY MODIFIED GASTROINTESTINAL TRACT
AND METHOD FOR STUDY OF WEIGHT REDUCTION

Abstract

The invention comprises a nonhuman mammalian animal having a presurgical normal gastrointestinal tract that is surgically modified such that postsurgically there is: a reduction of the volume of the stomach leaving a gastric pouch, a reduction in the digestive area of the gastrointestinal tract; a reduction in the digestive area of the gastrointestinal tract, a reduction in the co-mingling of food with gastric, biliary and pancreatic juices, a reduction in the presurgical gastric output of the peptide ghrelin, a reduction in the threshold for satiety, a permanent reduction in presurgical weight, and an induction of a condition of malabsorption. The surgically-altered animal may be used as an animal model wherein the biological mechanisms underlying obesity and its reduction may be investigated; and, wherein the molecular biological effects of surgical intervention for obesity may be investigated; and, wherein the efficacy of noninvasive alternatives to surgical intervention for obesity may be investigated.

Background of the Invention

1. Technical Field

The present invention relates generally to a nonhuman mammalian animal model created by a surgical modification of a nonhuman mammalian animal's gastrointestinal tract, and the use
Serial No. 10/802,996